

# Georgetown University A District Energy Partnership

Kevin Turner, Georgetown

Benton Erwin, Arup

Tirelle Lee, Georgetown Energy Partners, LLC













Kevin Turner
Director of Engineering
and Utilities
Georgetown University



Benton Erwin
Technical Advisory Lead
Arup



Tirelle Lee CEO Georgetown Energy Partners, LLC











#### **Agenda**

- Why use a concessionaire approach
- Selecting a partner
- Alignment of outcomes
- Delivering successful outcomes

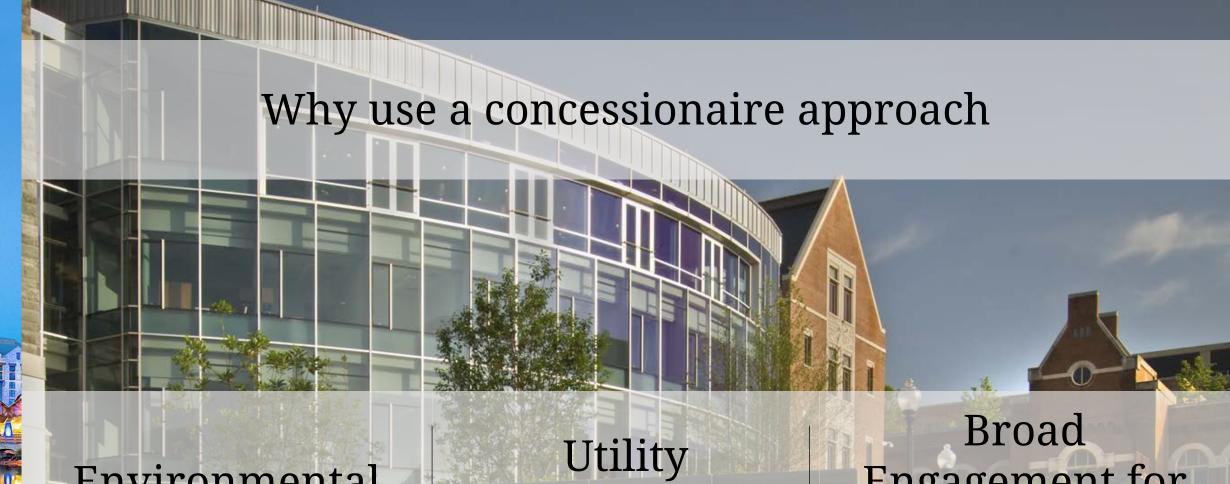












Environmental Leadership Utility
Infrastructure
Enhancements

Broad
Engagement for
Communitywide
Benefit

De-Carbonizing the Campus: Planning, Tools & Technologies

Campus Energy 2023

GEORGETOWN, UNIVERSITY







#### Why use a concessionaire approach



energy-use intensity

by 35% by 2031



Mitigate carbon footprint

De-Carbonizing the Campus: Planning, Tools & Technologies

Campus Energy 2023

February 27 – March 2, 2023

Gaylord Texan Resort & Convention Center I Grapevine, Texas









#### Why did Georgetown select ENGIE



#### Big.

Georgetown University's energy infrastructure delivers 123,202,860 kilowatts of electricity and 805,453 MBtus of natural gas annually.

#### Balanced.

The university owns the energy infrastructure and retains control over capital improvement decisions. ENGIE operates the campus utilities and works with Georgetown.

#### Built on Expertise.

Projects will benefit from ENGIE's global experience, their successful partnerships with other higher-ed institutions, and from advanced analytics, which will inform infrastructure decisions.

De-Carbonizing the Campus: Planning, Tools & Technologies

Campus Energy 2023

February 27 – March 2, 2023



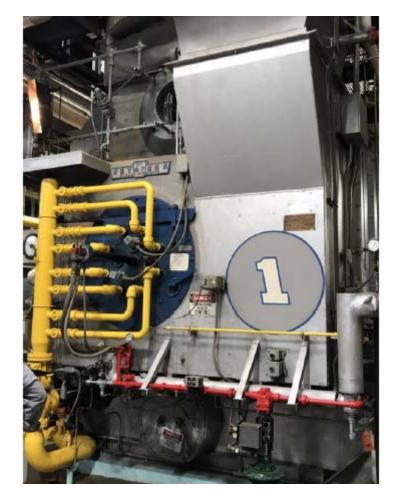






# Alignment of outcomes

- Custom approach and agreed valuation
  - Define Objectives
  - Define Scope
  - Define Transaction
- Bilateral negotiation
  - Georgetown with advisors : ENGIE







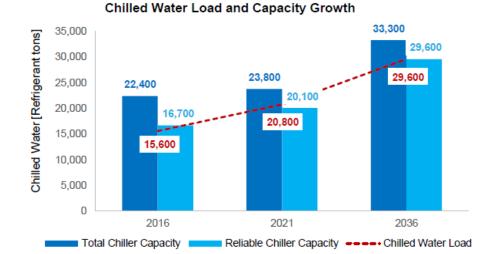






# Valuation Inputs

- Agreed valuation model
- Business Plan
  - Opex and Capex Planning
  - Growth Capex















# Technical and Commercial Inputs

Partnership Incentives

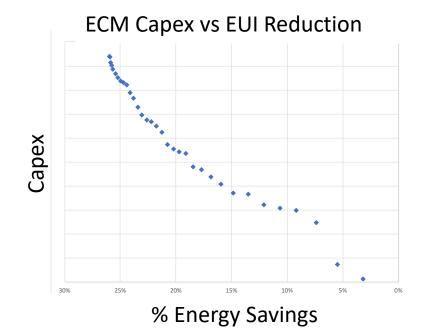
Operational Baseline

Georgetown
Policies and
Requirements



#### **Concession Agreement**

- Performance Standards
- KPIs
- Bonus Penalty Regime





Gaylord Texan Resort & Convention Center I Grapevine, Texas









# Why ENGIE?

- ENGIE has decades of experience operating and maintaining campus utility systems
  - Multiple campuses within a Concession Agreement environment
  - Network of more than **225 university campus utility experts** that understand the campus environment
  - Generally, university employees who transitioned to ENGIE
    - Remain actively connected as a part of the campus community
    - Doing the same jobs, interacting with the same people
    - Maintaining valuable institutional knowledge













#### How was ENGIE Positioned for Success

There is not a 'one size fits all' approach to university campuses. Each Partnership is unique, but they do have some similarities...

- Diverse customers eager to deliver outstanding experiences to their stakeholders
- All share **critical utility infrastructure** that supports campus, research institutions, hospitals, student housing and more
- Experienced **utility teams with long tenure**, dedicated to serving their community
  - Pride in reliable and safe operations
- Competitive Environment for funding













# What are Additional Benefits to Georgetown

- Interface with a select subgroup of University stakeholders
  - Public vs Private
- Offer connections to personnel from other institutions
  - University and Operations/CAPEX members
- Ask the hard questions and Request appropriate data
  - Potential Optimizations/Improvements
- Identify what is being done well and what could use improvement
- **Share** our insight/lessons learned













# Early Wins

- Transitioned 26 of the 28 actual Utility Employees to ENGIE on day 1
- Accelerated the initiation of the analysis of a campus Steam to HHW conversion
- Actively working to finalize a strategy to reduce/eliminate Scope 1 GHG associated with the Utility System in collaboration with University
- Additional projects to reduce/eliminate Scope 1 associated with transportation in Development
- 100% of the projects submitted in 1st two FYs were approved. Many of which are transitioning to full construction as well as another batch of projects submitted for FY24
  - ECMs on the path to 35% reductions
  - Large PV restoration
- Completed project that replaced utility infrastructure under a major sport field on campus on-time and budget
- Continuing to build collaboration between teams













#### Thank You!



Kevin Turner
Director of Engineering
and Utilities
Georgetown University



Benton Erwin Technical Advisory Lead Arup



Tirelle Lee CEO Georgetown Energy Partners, LLC









